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TITLE

GRAPEVINE PLANT NAMED 12-76-71

GENUS AND SPECIES

[0001] *Vitis vinifera*

BACKGROUND AND SUMMARY OF THE INVENTION

[0002] The new table grapevine '12-76-71' is of *Vitis vinifera* parentage and
resulted from an eighteen year breeding program which had as its goal the development of
a grapevine bearing red, seedless, muscat-flavored grapes. The female, seeded parent was
the patented grapevine 'Redglobe' (U.S. Plant Patent 4787). The male parent of the cross
was an unnamed, unpatented grapevine designated as grapevine '7-7-2'. Grapevine '7-7-
2' bears red, seedless, muscat-flavored berries and descends from a wine grape 'Red
Muscatel' and 'Flame Seedless' (both unpatented). The hybridization resulting in
grapevine '12-76-71' was made near McFarland, California in 1991. Seeds from this cross
were harvested, stratified and planted in a greenhouse. The resulting seedling population
totaled 24 individual plants. All seedlings were subsequently transplanted to a field near
McFarland, California in March, 1992. Grapevine '12-76-71' fruited in 1993 and was
selected for further propagation. It was then propagated by cuttings and was grafted to
'Freedom' rootstock in 1995. This new variety has been found to retain its distinctive
characteristics through successive propagation and this novelty is firmly fixed.

[0003] The new grapevine variety, grapevine '12-76-71' is similar to its male
parent variety '7-7-2', but differs from it by having a much larger berry with firmer flesh.

It differs from its female parent 'Redglobe' by having a seedless (stenospermic) berry of much smaller size than that of 'Redglobe'. Fruit cluster size is much smaller than that of 'Redglobe' as well. Harvest time of '12-76-71' is similar to that of its male parent '7-7-2', about two weeks before 'Redglobe' in McFarland, California. It differs from other red, seedless varieties such as 'Crimson Seedless' (unpatented) and grapevine '3-14-71' (United States Plant Patent 8297) by ripening about two weeks earlier in the McFarland, California area and by having a strong, muscat flavor.

[0004] The accompanying drawings illustrate the following:

FIG 1 illustrates the fruit cluster at harvest.

FIG 2 illustrates the upper leaf surface.

FIG 3 illustrates the young shoot and leaves.

DETAILED BOTANICAL DESCRIPTION OF THE INVENTION

[0005] The following description of grapevine '12-76-71' contains references to color names taken from the Munsell Color Chart for Plant Tissues, published by Munsell Color, New Windsor, New York. Descriptors used herein conform to those set forth by the International Board for Plant Genetic Resources Institute Grape Descriptors (*Vitis* spp.) of 1983 and/or 1997 which were developed in collaboration with the Office International de la Vigne et du Vin (OIV) and the International Union for the Protection of New Varieties of Plants (UPOV).

[0006] Descriptions of the new invention apply to vines of '12-76-71' grown on 'Freedom rootstock at a density of 1,537 vines per hectare grown in Kern County,

California in 2000. These vines were in their third year of full production having been
planted in 1995. These descriptions are believed to apply generally to the new variety
grown under similar circumstances elsewhere:

VINE

[0007] General:

Size: 5 year old vines on 'Freedom' rootstock are average size –
trunk diameter is 55 MILLIMETERS.

Vigor: 5 year old vines on 'Freedom' rootstock are average vigor –
cane length on vines thinned to 32 shoots averaged 2.25 meters of growth from March –
September 2000.

Density of foliage: Moderate.

Productivity: Moderately productive when spur pruned, up to
20kg./hectare.

Trunk circumference: About 6 cm. at 1 meter height.

Rootstock: Freedom.

[0008] Trunk:

Shape: Circular.

Straps: Long, split.

Surface texture: Shaggy.

Inner bark color: 2.5YR 4/8.

[0009] Mature leaves:

Color: 7.5GY 4/4

Outline: Spherical

Leaf margin: Cupped upward.

Lobing: 5 well-defined lobes.

Marginal teeth: Large.

Teeth outline: Acute.

Thickness: Medium

Petiole sinus: Wide, open U-shaped.

Color of veins, upper surface: At apex: 2.5 GY 7/8, at base 5R 3/10.

[0010] Shoot tip:

Color: 2YR 6/8.

Pubescence: Present.

[0011] Petiole:

Color: 2.5 GY 7/8 to 5R 4/10.

[0012] Woody shoot

Internode length: 10 cm.

Cross section: Circular.

Diameter: 1 cm.

Shoot surface: Rough, ridged.

Dormant buds: Large, flattened.

Lateral branching: Strong.

Color: 5YR 5/8.

[0013] Flowers

Flower sex: Perfect.

Position of first flowering nodes: 3rd.

Number of inflorescences per shoot: 1 or 2.

Inflorescence branches: Slender and irregular in length and
Position.

Date of full bloom: May 12, 2000.

Time of bloom: Average compared to other *Vitis vinifera* growing in
the McFarland, California area.

Fruit

[0014] General:

Ripening period: About 2 weeks after Flame Seedless near
McFarland, California.

Ripening date: July 28, 2000

Use: Fresh market.

Keeping quality: Very good. Clusters stored in early August
retained high quality for a period of 8 weeks.

Disease: No disease symptoms have been observed on vines in
replicated study in 5 years of growth.

Insects: Grape leafhopper, *Erythroneura elegantula* (Osborn) and
variegated leafhopper, *Erythroneura variabilis* (Beamer) have been observed feeding on
vines. No other predaceous insects have been observed.

Shipping quality: Good.

Date of first harvest: August 4, 2000.

Solids-sugar: 18 brix.

[0015] Cluster:

Bunch size: Small

Bunch weight (natural): 170g.

Bunch weight (gibberellic acid treated): 375g.

Form: Mostly conical, but irregular.

[0016] Berry

Size: Medium

Uniformity of size: Uniform.

Berry weight (natural): 2.3 g.

Berry weight (gibberellic acid treated): 4-8g, 5.4g average.

Shape: Spherical.

Presence of seeds: Rudimentary.

Cross section: Circular.

Skin color: 5R 4/6.

Juiciness of flesh: Very juicy.

Berry firmness: Very firm.

Particular flavor: Muscat, strong.

Bloom: Strong.

Berry separation from pedicel: Requiring great force; exceptional

attachment.

[017] Skin

Thickness: Medium.

Texture: Smooth.

Reticulation: Absent.

Tenacity: Tenacious to flesh.

Tendency to crack: Resistant.

[0018] Tendrils

Bifurcated or trifurcated.

CLAIM

What is claimed is:

1. A new and distinct variety of grapevine plant, substantially as illustrated and described.

ABSTRACT

[0019] This new variety '12-76-71' is new and different because of its unusual berry flavor (muscat) combined with bright red coloration and seedlessness (stenospermic berries). It differs from other red, seedless grapes such as 'Flame Seedless' (unpatented) by having a strong muscat flavor and ripening about two weeks later. It differs from other red, seedless varieties such as grapevine '3-14-71' (United States Plant Patent 8297) by ripening about two weeks earlier and by having a strong muscat flavor.